

**Flood Control Project Maintenance
Levee Inspections**
LMA District Cover Sheet
Spring 2017 Levee Inspection Results

Reclamation District No. 2107 Mossdale Island

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
† Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection
Reports may effect overall annual rating.

† SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2017 Levee Inspection Results

Reclamation District No. 2107 Mossdale Island

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	2.33
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/30/2017 - 3/30/2017			
DWR Inspector	Maksim Khashchuk			
Accompanied By	Robert Brown RD2107			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/30/2017 03/30/2017	Maksim Khashchuk

LM Start		Rating **	A	Issue No.	5
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training				
DWR ID	DWR_RD2107_01_s_2013_5				
Comment Code					
Inspector Comment					
The LMA has flood fight training and an emergency response plan.					

No Photos

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment				
DWR ID	DWR_RD2107_01_s_2013_7				
Comment Code					
Inspector Comment					
Flood fighting supplies are available on-site.					

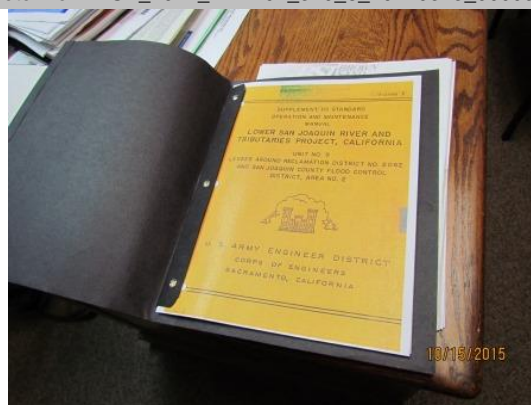
Photo 1 of 1 : SP_2017_RD2107_329_7_20170313_00002.jpg



View of the flood fight emergency supplies.

LM Start		Rating **	A	Issue No.	8
LM End		Issue Type +	Ma	Location *	LS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals				
DWR ID	DWR_RD2107_01_s_2013_8				
Comment Code					
Inspector Comment					
The O&M Manual is available at the LMA's office.					

Photo 1 of 1 : SP_2017_RD2107_329_8_20170313_00003.jpg



View of the O&M Manual.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/30/2017 03/30/2017	Maksim Khashchuk

LM Start	0.03	Rating **	C	Issue No.	1
LM End	0.03	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.786993 °	37.786993 °
				-121.308694 °	-121.308694 °
DWR ID	DWR_RD2107_01_s_2012_1				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	0.23	Rating **	M	Issue No.	58
LM End	0.23	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.784586 °	37.784586 °
				-121.306837 °	-121.306837 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:16187 DS_ID:23107 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified. Erosion exposed pipes on LS. FIELD_STRUCT_DESC: 3-inch PVC conduit 1-foot below the road surface within roadway fill over levee crown. FS Date: 5/22/2013					

Photo 1 of 1 : UCIP_SP_2017_16187_27294.jpg



Pipes visible on LS next to roadway.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/30/2017 03/30/2017	Maksim Khashchuk

LM Start	0.23	Rating **	M	Issue No.	59
LM End	0.23	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.784586 °	37.784586 °
				-121.306837 °	-121.306837 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:15175 DS_ID:23108 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified. Erosion exposed pipes on LS. FIELD_STRUCT_DESC: 8-inch steel conduit 1-foot below the road surface within roadway fill over levee crown. Visible on Upstream side of bridge. FS Date: 5/22/2013					

Photo 1 of 1 : UCIP_SP_2017_15175_24922.jpg



Pipes visible on LS next to roadway.

LM Start	0.23	Rating **	M	Issue No.	60
LM End	0.23	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.784586 °	37.784586 °
				-121.306837 °	-121.306837 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:15173 DS_ID:23109 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. Erosion exposed pipes on LS. FIELD_STRUCT_DESC: 1.5-inch PVC conduit 1-foot below the road surface within roadway fill over levee crown. FS Date: 5/22/2013					

Photo 1 of 2 : UCIP_SP_2017_15173_24918.jpg



Pipes visible on LS next to roadway.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/30/2017 03/30/2017	Maksim Khashchuk

LM Start	0.23	Rating **	M	Issue No.	60 (cont)							
LM End	0.23	Issue Type +	En	Location *	WS							
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DWR UCIP Field Study		37.784586 °	37.784586 °								
			-121.306837 °	-121.306837 °								
DWR ID												
Comment Code												
Inspector Comment												
FS_ID:15173 DS_ID:23109 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. Erosion exposed pipes on LS. FIELD_STRUCT_DESC: 1.5-inch PVC conduit 1-foot below the road surface within roadway fill over levee crown. FS Date: 5/22/2013												

Photo 2 of 2 : UCIP_SP_2017_15173_24917.jpg



Pipes visible on LS next to roadway.

LM Start	0.23	Rating **	M	Issue No.	61							
LM End	0.23	Issue Type +	En	Location *	WS							
Category	Supplemental		GPS Latitude/Longitude									
			Start	End								
Item	DWR UCIP Field Study		37.784586 °	37.784586 °								
			-121.306837 °	-121.306837 °								
DWR ID												
Comment Code												
Inspector Comment												
FS_ID:15174 DS_ID:23110 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 1.5-inch PVC conduit 1-foot below the road surface within roadway fill over levee crown. FS Date: 5/22/2013												

Photo 1 of 2 : UCIP_SP_2017_15174_24920.jpg



Enter photo 1 description or comment here.

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
N/A : Not Applicable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/30/2017 03/30/2017	Maksim Khashchuk

LM Start	0.23	Rating **	M	Issue No.	61 (cont)	
LM End	0.23	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.784586 °		37.784586 °
				-121.306837 °		-121.306837 °
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:15174 DS_ID:23110 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No permit identified for this crossing. FIELD_STRUCT_DESC: 1.5-inch PVC conduit 1-foot below the road surface within roadway fill over levee crown. FS Date: 5/22/2013						

Photo 2 of 2 : UCIP_SP_2017_15174_24921.jpg



Pipes visible on LS next to roadway.

LM Start	0.25	Rating **	C	Issue No.	18
LM End	0.25	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.784372 °	37.784372 °
				-121.306647 °	-121.306647 °
DWR ID	DWR_RD2107_01_f_2016_18				
Comment Code					
GA : Garbage					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/30/2017 03/30/2017	Maksim Khashchuk

LM Start	0.26	Rating **	C	Issue No.	19
LM End	0.26	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.784300 °	37.784300 °
				-121.306488 °	-121.306488 °
DWR ID	DWR_RD2107_01_f_2015_19				
Comment Code					
S2 : Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comment					

No Photos

LM Start	0.27	Rating **	M	Issue No.	62
LM End	0.27	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.784194 °	37.784194 °
				-121.306353 °	-121.306353 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:16188					
DS_ID:19055					
EP_NO: 12101B					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Appears abandoned and should be done so properly.					
FIELD_STRUCT_DESC: 4" electrical conduit through the levee 2.5 feet below the crown. Distribution panel on a 5-foot by 6-foot concrete pad on the WS shoulder (Permit No 12101B, 1979).					
FS Date: 5/21/2013					

Photo 1 of 1 : UCIP_SP_2017_16188_27296.jpg



5X5 concrete pad with exposed electrical conduit on WS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/30/2017 03/30/2017	Maksim Khashchuk

LM Start	0.32	Rating **	M	Issue No.	20
LM End	0.32	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.783649 °	37.783649 °
				-121.305710 °	-121.305710 °
DWR ID	DWR_RD2107_01_f_2015_20				
Comment Code					
BU : Building					
Inspector Comment					
Building in the floodway may impede flood flows.					

Photo 1 of 1 : SP_2017_RD2107_329_20_20170313_00007.jpg



View of the building in the floodway.

LM Start	0.68	Rating **	M	Issue No.	63
LM End	0.68	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.779486 °	37.779486 °
				-121.301961 °	-121.301961 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:13684 DS_ID:19036 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Wooden walkway to pump on platform is in disrepair and may be a hazard. FIELD_STRUCT_DESC: 1 of 2: 14-inch pipe through the levee 17.0 feet below the crown. Pump on pile structure in the stream. Walkway to pump. Slide gate in 48-inch CMP riser on WS shoulder. 36-inch concrete standpipe at the landward toe. Service pole and circuit panel on landward toe. Originally included in O&M manual, 1964. FS Date: 5/21/2013					

Photo 1 of 3 : UCIP_SP_2017_13684_22411.jpg



Pier and 48-inch CMP riser on WS shoulder

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/30/2017 03/30/2017	Maksim Khashchuk

LM Start	0.68	Rating **	M	Issue No.	63 (cont)	
LM End	0.68	Issue Type +	En	Location *	WS	
Category	Supplemental			GPS Latitude/Longitude		
				Start		End
Item	DWR UCIP Field Study			37.779486 °	37.779486 °	
				-121.301961 °	-121.301961 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:13684 DS_ID:19036 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Wooden walkway to pump on platform is in disrepair and may be a hazard. FIELD_STRUCT_DESC: 1 of 2: 14-inch pipe through the levee 17.0 feet below the crown. Pump on pile structure in the stream. Walkway to pump. Slide gate in 48-inch CMP riser on WS shoulder. 36-inch concrete standpipe at the landward toe. Service pole and circuit panel on landward toe. Originally included in O&M manual, 1964. FS Date: 5/21/2013						

Photo 2 of 3 : UCIP_SP_2017_13684_22410.jpg



Walkway to pump on pier at WS.

LM Start	0.68	Rating **	M	Issue No.	63 (cont)
LM End	0.68	Issue Type +	En	Location *	WS

Photo 3 of 3 : UCIP_SP_2017_13684_22409.jpg



Butterfly valve on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/30/2017 03/30/2017	Maksim Khashchuk

LM Start	0.70	Rating **	M	Issue No.	64
LM End	0.70	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.779209 °	37.779209 °
				-121.301973 °	-121.301973 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:13883 DS_ID:19039 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Slide gate missing actuator inside 55-inch CMP riser. FIELD_STRUCT_DESC: 14-inch pipe through the levee, 15.0 feet below the crown. Pipe likely runs from 36-inch concrete standpipe on LS to outlet on WS toe. Portion of the discharge line from the pump at Levee Mile 0.68. 55-inch CMP riser with slide gate on LS shoulder. Originally included in O&M manual, 1964. FS Date: 5/21/2013					

LM Start	0.70	Rating **	M	Issue No.	64 (cont)
LM End	0.70	Issue Type +	En	Location *	WS

Photo 1 of 2 : UCIP_SP_2017_13883_22821.jpg



36-inch concrete standpipe on LS toe.

Photo 2 of 2 : UCIP_SP_2017_13883_22822.jpg



55-inch CMP riser with slide gate (no handle) on LS shoulder. 14-inch and 12-inch pipe visible on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/30/2017 03/30/2017	Maksim Khashchuk

LM Start	0.75	Rating **	C	Issue No.	24
LM End	0.75	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.778824 °	37.778824 °
				-121.302813 °	-121.302813 °
DWR ID	DWR_RD2107_01_s_2016_24				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
LMA repaired erosion site.					

No Photos

LM Start	1.13	Rating **	A	Issue No.	16
LM End	1.17	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Seepage / Sandboils			37.775445 °	37.775054 °
				-121.307850 °	-121.307329 °
DWR ID	DWR_RD2107_01_s_2017_16				
Comment Code					
Inspector Comment					
LMA installed seepage stability berm at levee toe due to February 2017 storms.					

Photo 1 of 1 : SP_2017_RD2107_329_16_20170405_00026.jpg



View of the seepage berm at the levee toe.

LM Start	1.23	Rating **	M	Issue No.	17
LM End	1.23	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.774123 °	37.774123 °
				-121.307189 °	-121.307189 °
DWR ID	DWR_RD2107_01_s_2012_17				
Comment Code					
V6 : Landscaping					
Inspector Comment					
Landscaping and fence present on levee slope.					

Photo 1 of 1 : SP_2017_RD2107_329_17_20170313_00004.jpg



View of landscape planting on landside levee slope and a 3-ft yard fence at the levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/30/2017 03/30/2017	Maksim Khashchuk

LM Start	1.45	Rating **	M	Issue No.	65
LM End	1.45	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.771939 °	37.771939 °	
			-121.305063 °	-121.305063 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:13667 DS_ID:19031 EP_NO: 12790 Repair Type: Non-Urgent Crossing Status: Indicator Found UCIP Comments: Verify with electricity provider that electric service is overhead and not through the levee. FIELD_STRUCT_DESC: 1 of 3: Possible underground electrical conduit through the levee at unknown depth. Overhead power line on site likely installed instead of underground. (Permit No. 12790, 1981). FS Date: 5/21/2013					

No Photos

LM Start	1.47	Rating **	M	Issue No.	66
LM End	1.47	Issue Type +	En	Location *	LS
Category	Supplemental		GPS Latitude/Longitude		
			Start	End	
Item	DWR UCIP Field Study		37.771735 °	37.771735 °	
			-121.304847 °	-121.304847 °	
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:13650 DS_ID:19040 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: No pump. Appears abandoned. Large hole under pipe on WS slope from animal activity. FIELD_STRUCT_DESC: 1 of 2: 18-inch PVC irrigation pipe through the levee 2.5 feet below the crown. Pump on pile structure in the stream. Walkway to the pump. Originally included O&M manual, 1964. FS Date: 5/21/2013					

Photo 1 of 3 : UCIP_SP_2017_13650_22341.jpg



Pumping plant on metal pier on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/30/2017 03/30/2017	Maksim Khashchuk

LM Start	1.47	Rating **	M	Issue No.	66 (cont)	
LM End	1.47	Issue Type +	En	Location *	LS	
Category	Supplemental			GPS Latitude/Longitude		
				Start	End	
Item	DWR UCIP Field Study			37.771735 °	37.771735 °	
				-121.304847 °	-121.304847 °	
DWR ID						
Comment Code						
Inspector Comment						
FS_ID:13650						
DS_ID:19040						
EP_NO: N/A						
Repair Type: Non-Urgent						
Crossing Status: Found						
UCIP Comments: No pump. Appears abandoned. Large hole under pipe on WS slope from animal activity.						
FIELD_STRUCT_DESC: 1 of 2: 18-inch PVC irrigation pipe through the levee 2.5 feet below the crown. Pump on pile structure in the stream.						
Walkway to the pump. Originally included O&M manual, 1964.						
FS Date: 5/21/2013						

Photo 2 of 3 : UCIP_SP_2017_13650_22340.jpg



Large hole under pipe on WS slope.

LM Start	1.47	Rating **	M	Issue No.	66 (cont)
LM End	1.47	Issue Type +	En	Location *	LS

Photo 3 of 3 : UCIP_SP_2017_13650_22339.jpg



Pumping plant on metal pier on WS toe. Pipe visible on right under walkway.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/30/2017 03/30/2017	Maksim Khashchuk

LM Start	1.47	Rating **	M	Issue No.	67
LM End	1.47	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.771735 °	37.771735 °
				-121.304847 °	-121.304847 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:15179					
DS_ID:23106					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe open on WS toe at the pump on pier. Pipe abandoned and should be done so properly.					
FIELD_STRUCT_DESC: 16-inch steel irrigation pipe through the levee 2.5 feet below the crown. Pump on pile structure in the stream.					
Walkway to the pump.					
FS Date: 5/21/2013					

LM Start	1.47	Rating **	M	Issue No.	67 (cont)
LM End	1.47	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_15179_24935.jpg



Metal pier on WS slope.

Photo 2 of 3 : UCIP_SP_2017_15179_24934.jpg



Pipe visible under metal walkway on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspection Report By Mile - Spring 2017

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	2.33	03/30/2017 03/30/2017	Maksim Khashchuk

Photo 3 of 3 : UCIP_SP_2017_15179_24933.jpg



Pipe open at pump on platform on WS.

Photo 1 of 1 : SP_2017_RD2107_329_21_20170405_00027.jpg



03/30/2017

View of the seepage berm at the levee toe.

* Location	** Rating	+ Issue Type
LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2017 Levee Inspection Results

Reclamation District No. 2107 Mossdale Island

Waterway			Bank	Unit Miles
Unit No. 02 Paradise Cut			Right	1.82
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	3/30/2017 - 3/30/2017			
DWR Inspector	Maksim Khashchuk			
Accompanied By	Robert Brown RD2107			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	03/30/2017 03/30/2017	Maksim Khashchuk

LM Start	0.01	Rating **	A	Issue No.	10
LM End	1.12	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Seepage / Sandboils			37.760635 °	37.770854 °
				-121.309680 °	-121.324157 °
DWR ID	DWR_RD2107_02_s_2017_10				
Comment Code					
Inspector Comment					
LMA installed seepage stability berm at levee toe due to February 2017 storms.					

Photo 1 of 1 : SP_2017_RD2107_330_10_20170405_00012.jpg



View of the seepage berm at the levee toe.

LM Start	0.21	Rating **	C	Issue No.	8
LM End	0.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.761881 °	37.761881 °
				-121.312850 °	-121.312850 °
DWR ID	DWR_RD2107_02_f_2016_8				
Comment Code					
PR : Prunings					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	03/30/2017 03/30/2017	Maksim Khashchuk

LM Start	0.27	Rating **	M	Issue No.	12
LM End	0.27	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP LMA Responsibility			37.762613 °	37.762613 °
				-121.313480 °	-121.313480 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:13637					
DS_ID:19057					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Pipe filled in with soil around outlet and not visible on					
LS. Appears abandoned and should be done so properly.					
FIELD_STRUCT_DESC: *ABANDONED* 16-inch steel storm drain pipe					
16-feet below the crown with slide gate on WS toe. Originally included					
in O&M manual, 1964.					
FS Date: 5/21/2013					

Photo 1 of 2 : UCIP_SP_2017_13637_22299.jpg



Slide gate visible on WS toe.

LM Start	0.27	Rating **	M	Issue No.	12 (cont)
LM End	0.27	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : UCIP_SP_2017_13637_22298.jpg



Slide gate visible on WS toe.

* Location
 LS : Land Side N/A : Not Applicable
 WS : Water Side
 CR : Crown

** Rating
 A : Acceptable
 M : Minimally Acceptable
 U : Unacceptable
 N : Not Inspected/Rated
 C : Corrected
 A/W : Acceptable but Monitor & Maintain

+ Issue Type
 Ma : Maintenance Deficiency
 Ob : Design & System Obsolescence
 En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	03/30/2017 03/30/2017	Maksim Khashchuk

LM Start	0.54	Rating **	C	Issue No.	9
LM End	0.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.764838 °	37.764838 °
				-121.317318 °	-121.317318 °
DWR ID	DWR_RD2107_02_f_2015_9				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					
Add appropriate fill and compact the slope.					

No Photos

LM Start	0.54	Rating **	M	Issue No.	13
LM End	0.54	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.764832 °	37.764832 °
				-121.317405 °	-121.317405 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:13636 DS_ID:19058 EP_NO: 13161 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Some erosion along pipe alignment on WS slope. FIELD_STRUCT_DESC: 10-inch steel storm drain pipe through the levee 5-feet below the crown. Pump located on 36-inch concrete standpipe at LS toe. A PVC pipe runs parallel to waterward toe to train tracks. Air relief valve on waterward shoulder (Permit No. 13161, 1981). FS Date: 5/21/2013					

Photo 1 of 3 : UCIP_SP_2017_13636_22296.jpg



Erosion along pipe alignment on WS slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	03/30/2017 03/30/2017	Maksim Khashchuk

LM Start	0.54	Rating **	M	Issue No.	13 (cont)
LM End	0.54	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.764832 °	37.764832 °
				-121.317405 °	-121.317405 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:13636					
DS_ID:19058					
EP_NO: 13161					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: Some erosion along pipe alignment on WS slope.					
FIELD_STRUCT_DESC: 10-inch steel storm drain pipe through the					
levee 5-feet below the crown. Pump located on 36-inch concrete					
standpipe at LS toe. A PVC pipe runs parallel to waterward toe to train					
tracks. Air relief valve on waterward shoulder (Permit No. 13161, 1981).					
FS Date: 5/21/2013					

Photo 2 of 3 : UCIP_SP_2017_13636_22295.jpg



Pipe at outlet.

LM Start	0.54	Rating **	M	Issue No.	13 (cont)
LM End	0.54	Issue Type +	En	Location *	LS

Photo 3 of 3 : UCIP_SP_2017_13636_22294.jpg



JP and meter on LS shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	03/30/2017 03/30/2017	Maksim Khashchuk

LM Start	1.01	Rating **	U	Issue No.	4
LM End	1.01	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.769832 °	37.769832 °
				-121.322758 °	-121.322758 °
DWR ID	DWR_RD2107_02_s_2017_4				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
10 ft erosion at waterside toe.					

Photo 1 of 1 : SP_2017_RD2107_330_4_20170405_00013.jpg



View of the erosion at the waterside levee toe.

LM Start	1.26	Rating **	A	Issue No.	11
LM End	1.80	Issue Type +	Ob	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Seepage / Sandboils			37.771978 °	37.777557 °
				-121.326449 °	-121.332903 °
DWR ID	DWR_RD2107_02_s_2017_11				
Comment Code					
Inspector Comment					
LMA installed seepage stability berm at levee toe due to February 2017 storms.					

Photo 1 of 1 : SP_2017_RD2107_330_11_20170405_00014.jpg



View of the seepage berm at the levee toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	03/30/2017 03/30/2017	Maksim Khashchuk

LM Start	1.51	Rating **	U	Issue No.	14
LM End	1.51	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.774130 °	37.774130 °
				-121.329896 °	-121.329896 °
DWR ID					

Comment Code

Inspector Comment

FS_ID:51641
DS_ID:19056
EP_NO: 2966
Repair Type: Urgent
Crossing Status: Found
UCIP Comments: 11/16/2016 Visible hole through pipe visible on WS end. Sink hole present at the LS ditch. Evidence of pipe repair visible on LS (see photos) however, no permit was found to document the work. Need to contact owner to determine permit authorizing work. Due to the hole in the pipe recommend internal inspection of the pipe through the levee to determine pipe integrity. (O. Magana - DWR UCIP)05/22/2013 Headwall around pipe at LS toe is failing and should be shored up. Flap gate propped open and should be returned to normal function. (W. Wylie - DWR UCIP)
FIELD_STRUCT_DESC: 24-inch steel drain pipe through the levee 14 feet below the crown. Flap gate installed on the waterward end of the pipe and two standard reinforced concrete cutoff walls were placed around the pipe in line with the levee shoulders (Permit No. 2966, 1958 - Dell'Osso Brothers).
FS Date: 11/17/2016 10:50:00 AM

LM Start	1.51	Rating **	U	Issue No.	14 (cont)
LM End	1.51	Issue Type +	En	Location *	LS

Photo 1 of 3 : UCIP_SP_2017_51641_22441.jpg



Pipe visible on WS toe with Flap gate open.

Photo 2 of 3 : UCIP_SP_2017_51641_22440.jpg



Pipes visible under foliage on WS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 2107 Mossdale Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Paradise Cut	Right	1.82	03/30/2017 03/30/2017	Maksim Khashchuk

LM Start	1.51	Rating **	U	Issue No.	14 (cont)
LM End	1.51	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.774130 °	37.774130 °
				-121.329896 °	-121.329896 °
DWR ID					
Comment Code					
Inspector Comment					
FS_ID:51641 DS_ID:19056 EP_NO: 2966 Repair Type: Urgent Crossing Status: Found UCIP Comments: 11/16/2016 Visible hole through pipe visible on WS end. Sink hole present at the LS ditch. Evidence of pipe repair visible on LS (see photos) however, no permit was found to document the work. Need to contact owner to determine permit authorizing work. Due to the hole in the pipe recommend internal inspection of the pipe through the levee to determine pipe integrity. (O. Magana - DWR UCIP)05/22/2013 Headwall around pipe at LS toe is failing and should be shored up. Flap gate propped open and should be returned to normal function. (W. Wylie - DWR UCIP) FIELD_STRUCT_DESC: 24-inch steel drain pipe through the levee 14 feet below the crown. Flap gate installed on the waterward end of the pipe and two standard reinforced concrete cutoff walls were placed around the pipe in line with the levee shoulders (Permit No. 2966, 1958 - Dell'Osso Brothers). FS Date: 11/17/2016 10:50:00 AM					

Photo 3 of 3 : UCIP_SP_2017_51641_22439.jpg



Headwall failing at drainage ditch on LS toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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